318



OIPE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/075,846

DATE: 03/01/2002 P.5 TIME: 11:50:04

Input Set : A:\EP.txt

Output Set: N:\CRF3\03012002\J075846.raw

	3 <110> APPLICANT: Bristol-Myers Squibb Company 5 <120> TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING A NOVEL GLYCINE RECEPTOR ALPHA																	
				OF.	INVE	NTTOI	N: PO	JLYN	OCTE	ומדינט	ES EI	NCOD.	ING A	A NO	עביי (ואורונ	INE RECEP.	OK ALPHA
SUBUNIT 6	EXPI			r CAG	משפט.	TNTE	2TTM:	λ Τ . ΤΡΊ	ይ እ <i>ር</i> ጥ	нсі	DΔA	and	SDI.	ICE V	JART	ר ידוא ב	THEREOF	
-	IN THE GASTROINTESTINAL TRACT, HGRA4, and SPLICE VARIANT THEREOF <130> FILE REFERENCE: D0079 NP																	
	<140> CURRENT APPLICATION NUMBER: US/10/075,846																	
C> 10											, ,	,	•					
	<150										69,5	35						
	<151									•								
	<160																	
15	5 <170> SOFTWARE: PatentIn version 3.0																	
17	7 <210> SEQ ID NO: 1																	
18	3 <211> LENGTH: 2565																	
19	9 <212> TYPE: DNA																	
) <213> ORGANISM: homo sapiens																	
	<220> FEATURE:																	
	<221> NAME/KEY: CDS																	
	<222> LOCATION: (1)(1251) <400> SEQUENCE: 1															•		
									~+~	+	++~	a++	a++	ata	+~~	200	48	
	atg Met																40	
26 29		THI	TIII	Leu	va	PIO	ніа	1111	ьeu	10	PHE	ьeu	Leu	Deu	15	1111		•
	ctg	002	aaa	Car	-	ctc	ctc	agg	ata		ttα	aca	aaa	σασ		atc	96	
	Leu																, ,	
33		110	017	20	,	Leu	Lou	9	25				-1-	30				
	aaa	tct	σσα		aaσ	aaa	tcc	caq		atq	tcc	ccc	tct		ttc	cta	. 144	
	Lys																	
37	•		35		-	_		40					45					
	gac																192	
40	Asp	Lys	Leu	Met	Gly	Arg	Thr	Ser	Gly	Tyr	Asp	Ala	Arg	Ile	Arg	Pro		
41		50					55					60						
	aat																240	
	Asn	Phe	Lys	Gly	Pro		Val	Asn	Val	Thr	_	Asn	Ile	Phe	Ile			
	65					70					75					80	000	
	agt																288	
	Ser	Phe	Ser	Ser		Thr	Lys	Thr	Thr		Asp	Tyr	Arg	vaı		vaı		
49					85	+	+	~~~		90	a+ a	+	t 2.0	000	95	+ - +	336	
	ttc Phe																330	
52 53	rne.	neu	Arg	100	GTII	ттЪ	HSII	usb	105	Ary	neu	261	тут	110	GIU	TAT		
	cct	ra+	gac		cta	αac	ctc	aat		tcc	atσ	cta	gac		atc	taa	384	
	Pro																204	
57	110	nsp	115	JCI	Lcu		Leu	120		501			125					
	aag	сса		ctc	ttc	ttt	act		σασ	aaa	aga	qcc		ttc	cat	gag	432	
3,		J. U.	,				,		2-3		ورر	,				ر ر		

Input Set : A:\EP.txt

Output Set: N:\CRF3\03012002\J075846.raw

60 61	Lys	Pro 130	Asp	Leu	Phe	Phe	Ala 135	Asn	Glu	Lys	Gly	Ala 140	Asn	Phe	His	Glu		
63	gtg	acc	acq	gac	aac	aaq	tta	cta	cac	atc	ttc	aaq	aat	qqq	aat	qtq	4	180
	Val																	
	145					150			5		155	-1-		1		160		
	ctg	tac	200	ato	agg		200	ctc	att	ttα		tac	cta	ato	gac			528
	Leu																-	220
69		тут	ser	116	165	neu	1111	ьец	116	170	Ser	Cys	пеа	Mec	175	пса		
			++-			~~~	2 + 2	000	200		200	2 ± ~	a 2 a	a++		3.00		576
	aag																-	770
	Lys	Asn	Pne		мет	Asp	TTE	GIN		Cys	THE	met	GIII		GIU	Ser		
73				180					185					190			,	4
	ttt																e	524
	Phe	Gly	_	Thr	Met	Lys	Asp		Val	Phe	Glu	Trp		Glu	Asp	Ala		
77			195					200					205					
	cct																6	572
80	Pro	Ala	Val	Gln	Val	Ala	Glu	Gly	Leu	Thr	Leu	Pro	Gln	Phe	Ile	Leu		
81		210					215					220						
83	cgg	gat	gag	aag	gat	cta	ggc	tgt	tgt	acc	aag	cac	tac	aac	aca	ggg	7	720
84	Arg	Asp	Glu	Lys	Asp	Leu	Gly	Cys	Cys	Thr	Lys	His	Tyr	Asn	Thr	Gly		
	225	_		-	-	230					235					240		
87	aaa	ttc	acc	tac	atc	gag	qta	aaq	ttt	cac	ctq	qaa	cqq	caq	atq	ggc	7	768
	Lys																	
89	-			-1-	245		–	-1 -		250			,		255	-		
	tac	tat	cta	att		atσ	tac	atc	CCC		cta	ctc	atc	atic		cta	8	316
	Tyr																_	
93	-	1 7 1	LCu	260	O.L.II	ricc	- 1 -	110	265	001	Lou	Lcu	110	270		Leu		
	tcc	+ ~ ~	ata		++0	+ aa	ato	220		rat	act	acc	cct		cat	ata	S	364
	Ser																	704
		тър		ser	Pile	ттр	iie		Mec	ASP	Ата	нта	285	АТа	AIG	Val		
97			275					280							+ -+	~~~		112
	ggc																2	912
	_		_	TIE	Thr	Thi			Thi	мец	_ THI			ı sei	. ser	Gly		
10		290					295					300						000
																atc		960
		-	j Ala	Ser	Leu		_	Va.	. Ser	Туг			S Ala	ı TTE	e Asp	Ile		
	5 305					310					315					320	_	
	7 tgg																1	1008
10	8 Trp	Met	: Ala	Val	. Cys	Leu	ı Leu	Phe	val	Phe	e Ala	Ala	ı Let	ı Leı	ı Glu	ı Tyr		
10	9				325					330)				335	5		
11	1 gct	gcc	ata	aat	ttt	gtt	tct:	. cgt	. cag	cat	. aaa	gaa	a tto	: ata	a cga	ctt	1	L056
11	2 Ala	ı Ala	ı Ile	. Asn	Phe	val	l Ser	Arg	Gln	His	Lys	Glu	ı Phe	e Ile	e Arg	, Leu		
11				340					345					350				
11	5 cga	aga	agg	cag	agg	cgc	caa	. cgc	: ttg	gag	g gaa	gat	ato	ato	caa	gaa	1	104
11	6 Arg	Arc	Arq	Gln	Arq	Arc	Gln	Arg	Leu	Glu	. Glu	Asp	Ile	e Ile	e Gln	Glu		
11	-	•	355		_	_	•	360				_	365					
	9 agt	. cat			ttc	cat	. ggc	tat	gac	tta	gac	cac	t t q c	cto	cad	gca	1	152
	0 Ser																	
12		370		-1-		3	375	_	1		1	380	_					
	- 3 aga			gat	cca	ato			tet	gar	att			ccc	caa	cct	1	200
																Pro	_	
- 4	9		. .	- Y			. J_u	<u> </u>	501	- I		-11				0		

Input Set : A:\EP.txt

Output Set: N:\CRF3\03012002\J075846.raw

125	385	390	395	400								
127	cca gcc cct ctt	cta agg gaa	gga gaa acc acg c	egg aaa ctc tac gtg	1248							
				arg Lys Leu Tyr Val								
129		405	410	415								
131	gac tgagccaaga	gaattgacac c	tctcccgg gctgtctt	cc ctttcacttt	1301							
	Asp											
		atcttct actgg	ttgt ctataaagtg c	ctacggtcag aagatatcca	1361							
137	ccaggctctg tgaa	atagggt gggag	tata gagteetget g	ctggcctcc tgcttcctcc	1421							
				ggacagttc cttcctgatc	1481							
141	tcccactcag aact	tcaact accag	ccca aagctatgtg g	gcctatatt gcatggtgcc	1541							
143	aatggtggct gtad	cttataa agatg	ctta tctaccctag t	ccatatttt ctccatactt	1601							
				gccaggatg accttctgcc	1661							
147	cttgctggag cctc	cctgtt ttcca	tact ccagtggaga g	stattcagaa cactgctgct	1721							
149	agattctggc attt	gtcatc ttaat	tgca ccacttctcc c	ecctgccacc tcccacccag	1781							
151	agcctggcca ttac	ctctgtc ctctg	ccct cctgctgcag a	ttcaaatgg tgagtttctc	1841							
153	ctatccacaa gtgo	ctgccct gtggg	ccta gtcaggtttc c	ttgaagtga gaggaaggca	1901							
155	aagccgcaag ttcc	ccacct, ctcga	aggg ttggaacagt c	ataggetge actgggetag	1961							
157	cgactatatg gccc	caacaga gaggt	ttca agtctcttgg g	gaageeecae aetttgtett	2021							
159	catccctttt ccta	ttgcgc ttgtc	gctc tttcctgttc a	ctgagatac tcctcttgtc	2081							
161	tgtctcttag tttt	gaggag agcgt	ctga gctgaccagg g	tagctggtt cagaaattac	2141							
163	tgtcagaatt gggg	gcagaga ctttg	gttc tcaaaaagac t	aaccttcca gatccacctg	2201							
				actagcatg gtggcaggat	2261 2321							
	ctgttggaca gctggggagt gtaaaaaaag aaaaatactt gttctttaag aaacttactt											
169	9 tatgatgeta gaaaactttt gagaaaagtg agateeaagg tagtggaace caggaggagt											
171	l agaatagaga aactattoto agagtgtott ttgttggotg ggotttoatt tgtttottot											
	3 ttctcaccaa agtctattt ccagggccct tcatttccaa cctggtcttt cacctccttt											
175	tggtgtgcaa ataa	aggtgc cgctg	aacc ttgttaagga t	aaaaaaaa aaaaaaaaa	2561							
177	aaaa				2565							
180	<210> SEQ ID NO): 2										
181	<211> LENGTH: 4	17										
	<212> TYPE: PRT											
	<213> ORGANISM:	-										
	<400> SEQUENCE:											
187	Met Thr Thr Lev	ı Val Pro Ala	Thr Leu Ser Phe L	eu Leu Leu Trp Thr								
188		5	10	15								
191	Leu Pro Gly Glr	ı Val Leu Leu	Arg Val Ala Leu A	la Lys Glu Glu Val								
192	20		25	30								
195	Lys Ser Gly Thr	Lys Gly Ser	Gln Pro Met Ser P	ro Ser Asp Phe Leu								
196	35		40	45 .								
199	Asp Lys Leu Met	: Gly Arg Thr	Ser Gly Tyr Asp A	la Arg Ile Arg Pro								
200	50	55		0								
		Pro Pro Val		sn Ile Phe Ile Asn								
204		70	75	80	•							
	Ser Phe Ser Ser			yr Arg Val Asn Val								
208		85	90 .	95								
	_			Ser Tyr Arg Glu Tyr								
212	100		105	110								
		Leu Asp Leu		eu Asp Ser Ile Trp	•							
216	115		120	125								

Input Set : A:\EP.txt

Output Set: N:\CRF3\03012002\J075846.raw

	Lys		Asp	Leu	Phe	Phe		Asn	Glu	Lys	Gly		Asn	Phe	His	Glu
220 223	Val	130 Thr	Thr	Asp	Asn	Lys	135 Leu	Leu	Arg	Ile	Phe	140 Lys	Asn	Gly	Asn	
	145					150					155					160
227 228	Leu	Tyr	Ser	Ile	Arg 165	Leu	Thr	Leu	Ile	Leu 170	Ser	Cys	Leu	Met	Asp 175	Leu
231 232	Lys	Asn	Phe	Pro 180	Met	Asp	Ile	Gln	Thr 185	Cys	Thr	Met	Gln	Leu 190	Glu	Ser
	Phe	Gly	Tyr 195		Met	Lys	Asp	Leu 200		Phe	Glu	Trp	Leu 205		Asp	Ala
	Pro	Ala		Gln	Val	Ala	Glu		Leu	Thr	Leu	Pro		Phe	Ile	Leu
240		210					215					220				
	Arg 225	Asp	Glu	Lys	Asp	Leu 230	Gly	Cys	Cys	Thr	Lys 235	His	Tyr	Asn	Thr	Gly 240
		Phe	Thr	Cvs.	Ile		Val	Lvs	Phe	His		Glu	Arg	Gln	Met	
248	_			_	245			•		250					255	
251252	Tyr	Tyr	Leu	Ile 260	Gln	Met	Tyr	Ile	Pro 265	Ser	Leu	Leu	Ile	Val 270	Ile	Leu
	Ser	Trp		Ser	Phe	Trp	Ile	Asn 280	Met	Asp	Ala	Ala		Ala	Arg	Val
256	61	т	275	T1.	mh	mh ~	17-1		mh∽	Wot	mbs	Πh ~	285	Cor	Cor	C1**
260	_	290	_				295					300			Ser	
	Ser 305	Arg	Ala	Ser	Leu	Pro 310	Lys	Val	Ser	Tyr	Val 315	Lys	Ala	Ile	Asp	Ile 320
		Met	Ala	Val	Cvs		Leu	Phe	Va l	Phe		Ala	Leu	Leu	Glu	
268					325					330					335	
271272	Ala	Ala	He	Asn 340	Phe	Val	Ser	Arg	G1n 345	His	Lys	GIu	Phe	350	Arg	Leu
275 276	Arg	Arg	Arg 355	Gln	Arg	Arg	Gln	Arg 360	Leu	Glu	Glu	Asp	Ile 365	Ile	Gln	Glu
	Sor	λκα		Тиг	Dho	λκα	G1v		Glv	T.011	Glv	ије		Τ.Δ11	Gln	Δla
280		370					375					380				
		Asp	Gly	Gly	Pro		Glu	Gly	Ser	Gly		Tyr	Ser	Pro	Gln	
	385					390					395					400
	Pro	Ala	Pro	Leu		Arg	Glu	Gly	Glu		Thr	Arg	Lys	Leu	Tyr	Val
288					405					410					415	
	Asp															
	<210												*			
	<211				540											
297	<212	2> T)	PE:	DNA												
298	<213	3> OF	RGANI	SM:	homo	sap	piens	3								
300	<220)> FE	EATUF	RE:												
	<221		•													
302	<222	2> LC	CATI	ON:	(1).	. (12	293)									
	< 400															
															tgg	
306 307		Thr	Thr	Leu	Val 5	Pro	Ala	Thr	Leu	Ser 10	Phe	Leu	Leu	Leu	Trp 15	Thr
		cca	ggg	cag	-	ctc	ctc	agg	gtg		ttg	gca	aaa	gag	gaa	gtc

48

96

Input Set : A:\EP.txt

Output Set: N:\CRF3\03012002\J075846.raw

210	.	D	G1	61 m	17 a 3	T 0	T 0	3	17.0]	7 J n	T 0	71-	T	C1	<i>c</i> 1	17-1		
310	Leu	Pro	СТА	20	vaı	Leu	Leu	Arg	vaı 25	Ата	Leu	Ala	гÀг	30	GIU	vai		
	aaa	tct	σσα		ааσ	aaa	tcc	cag		atα	tcc	ccc	tet		ttc	cta	1	44
					_			Gln		_				-			_	
315	1 10		35		_10	01	501	40			001		45					
	σac	aaa		atq	aaa	cga	aca	tct	ασa	tat	gat	qcc	agg	att	caa	ccc	1	92
	_			_		_		Ser			-	_						
319		50			1		55		- 1	-		60	,		,			
	aat	ttt	aaa	qqc	cca	ccc	gtg	aac	gtg	acc	tgc	aac	atc	ttc	atc	aac	2	40
								Asn			_							
323			-	-		70					75					80		
325	agt	ttc	agc	tcc	gtc	acc	aag	acc	aca	atg	gac	tac	cgg	gtg	aat	gtc	2	88
								Thr										
327					85					90					95			
329	ttc	ttg	cgg	caa	cag	tgg	aat	gac	cca	cgc	ctg	tcc	tac	cga	gaa	tat	3	36
330	Phe	Leu	Arg	Gln	Gln	Trp	Asn	Asp	Pro	Arg	Leu	Ser	Tyr	Arg	Glu	Tyr		
331				100					105					110				
333	cct	gat	gac	tct	ctg	gac	ctc	gat	CCC	tcc	atg	ctg	gac	tct	atc	tgg	3	84
334	Pro	Asp	Asp	Ser	Leu	Asp	Leu	Asp	Pro	Ser	Met	Leu	Asp	Ser	Ile	Trp		
335			115					120					125					
	-		_				-	aat				-					4	32
	Lys		Asp	Leu	Phe	Phe		Asn	Glu	Lys	Gly		Asn	Phe	His	Glu		
339		130					135					140						
			_	_		_		ctg	-			_					4	80
		Thr	Thr	Asp	Asn	_	Leu	Leu	Arg	Ile		Lys	Asn	Gly	Asn			
	145					150					155					160	_	
	_		-			_		ctc		_							5	28
	Leu	Tyr	Ser	He	_	Leu	Thr	Leu	ITe		Ser	Cys	Leu	Met		Leu		
347					165		_ 4			170					175		-	7.0
								cag									Э	76
	ьys	ASN	Pne		мет	ASP	116	Gln		Cys	THE	мес	GIII	190	GIU	ser		
351	+	+	2+2	180	+ ~ ~	200	aat	ata	185	+ a+	ata	+02	a++		~++	000	6	24
					-	-		ctg									O	24
355	ser	ser	195	Leu	Cys	261	PIO	Leu 200	PIO	ser	Leu	261	205	261	vai	GIY		
	tac	200		222	a a c	ctc	ata	ttt	nen	taa	ata	a a a		act	cct	act	6	72
			-		_			Phe									U	12
359	1 Y 1	210	Mec	цуз	nsp	Deu	215	rne	GIU	112	ыси	220	пор	niu	110	niu		
	atc		ata	act	παπ	ααα		act	cta	CCC	cag		atc	ttα	caa	gat	7	20
								Thr									,	20
	225	01.11	vul	niu	OIU	230	цси	. 1111	LCu	110	235	1 110	110	LCu	**** 9	240		
		ааσ	gat	cta	aac		tat.	acc	ааσ	cac		aac	aca	aaa	aaa		7	68
								Thr									•	•
367	024	<i>-1</i>			245	0,10	0,70		-1-	250	-1-			1	255			
	acc	tac	atc	gag	qta	aaq	ttt	cac	ctq		caa	caq	atq	qqc		tat	8	16
								His										
371		-1-		260		- 4			265		. ,			270	<u></u>	4 -		
	ctg	att	cag	atg	tac	atc	ccc	agc	cta	ctc	atc	gtc	atc	ctg	tcc	tgg	8	64
								Ser										



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 03/01/2002

PATENT APPLICATION: US/10/075,846

TIME: 11:50:05

Input Set : A:\EP.txt

Output Set: N:\CRF3\03012002\J075846.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12